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**Hsia**

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(54) **BASSINET ARRANGEMENT**

6,192,535 B1 \* 2/2001 Warner, Jr. et al. .... 5/93.2

(76) **Inventor:** **Ben M. Hsia**, 19401 Business Center Dr., Northridge, CA (US) 91324

\* cited by examiner

*Primary Examiner*—Alexander Grosz

(74) *Attorney, Agent, or Firm*—Raymond Y. Chan

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

A bassinet arrangement is detachably mounted on a playpen which includes a frame body having a top opening defining a surrounding supporting side edge and a storage chamber communicating with the top opening. The bassinet arrangement includes a fabric boundary having a first compartment, a second compartment adjacent thereto and a surrounding edge holder encirclingly provided on the fabric boundary for detachably mounting on the supporting side edge of the frame body of the playpen. The bassinet arrangement further includes a fastening unit provided on the edge holder and the frame body of the playpen for securely mounting the fabric boundary on the playpen and a bassinet adapted for substantially disposed in the second compartment. Therefore, the parent is able to accommodate his baby in the bassinet that is selectively supported on the playpen at home and carried everywhere.

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(52) **U.S. Cl.** ..... **5/93.2; 5/93.1; 5/98.1; 248/150; 248/153**

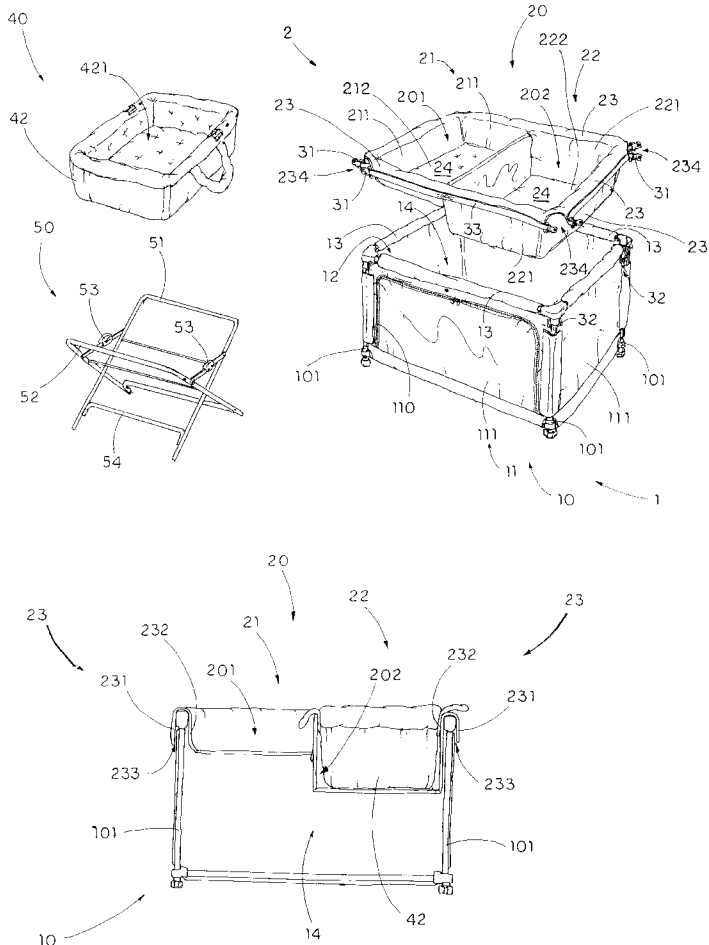
(58) **Field of Search** ..... **5/93.1, 95, 98.1, 5/93.2, 655, 94, 101, 102; 248/150, 153**

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**13 Claims, 6 Drawing Sheets**



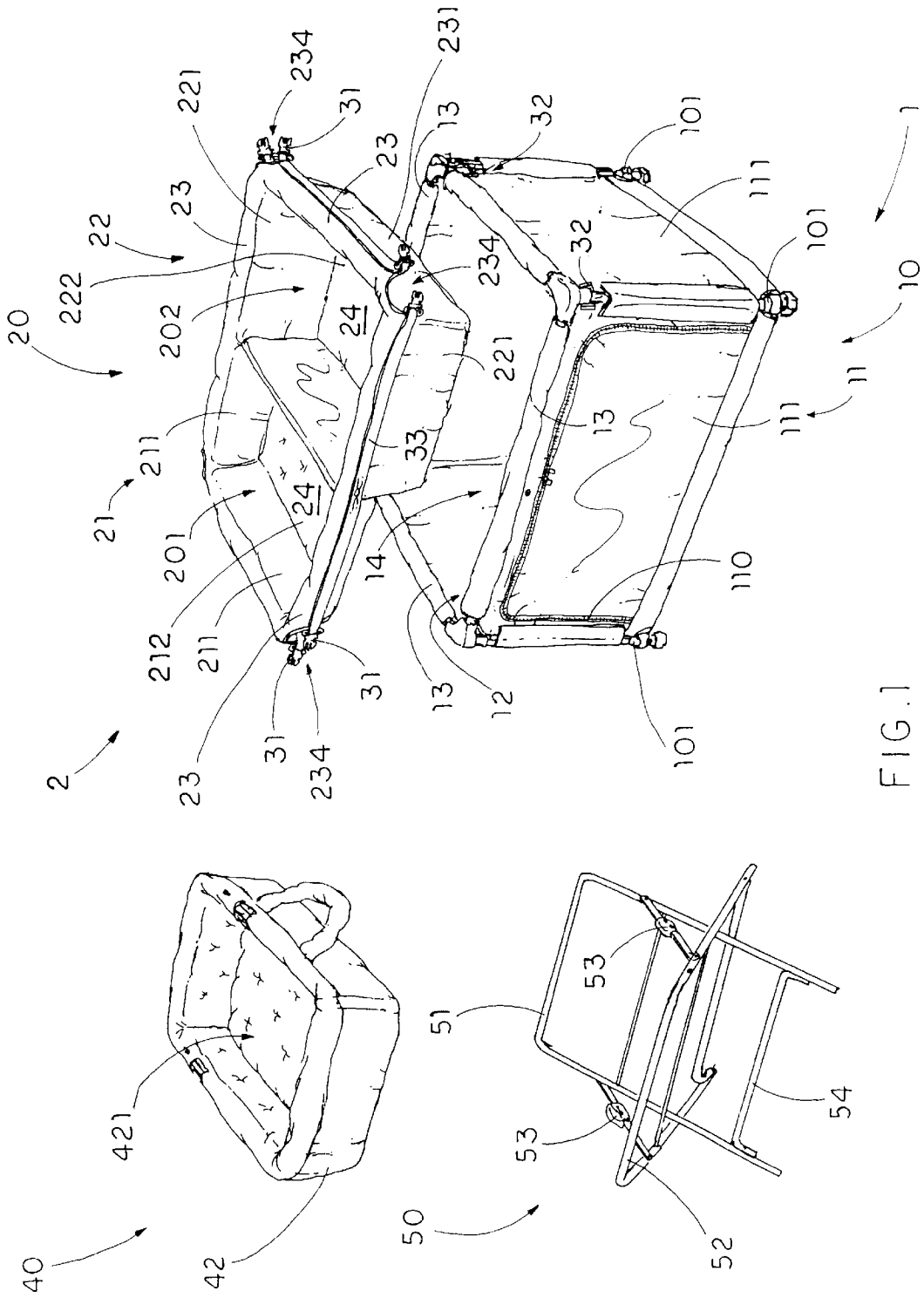


FIG. 1

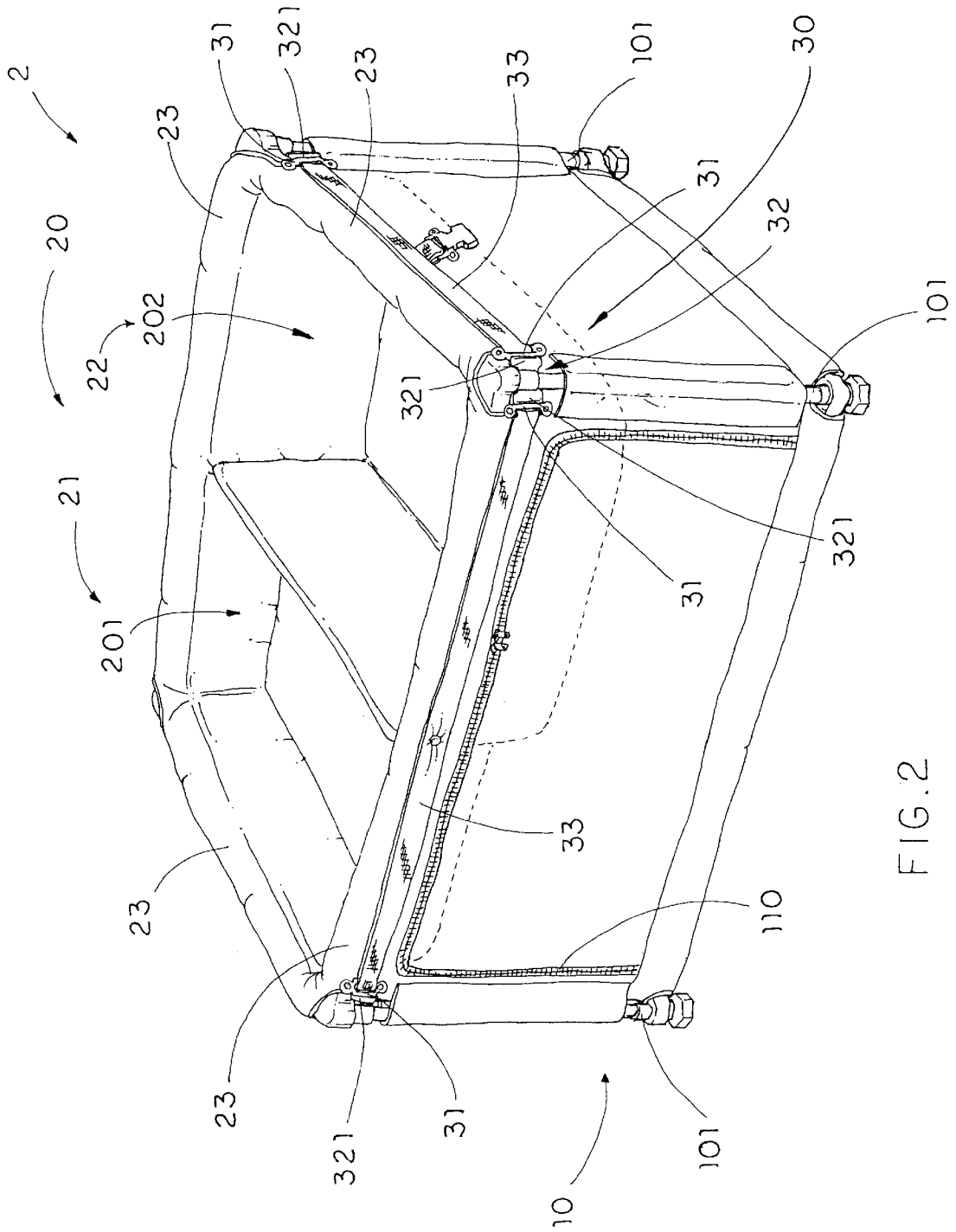


FIG.2



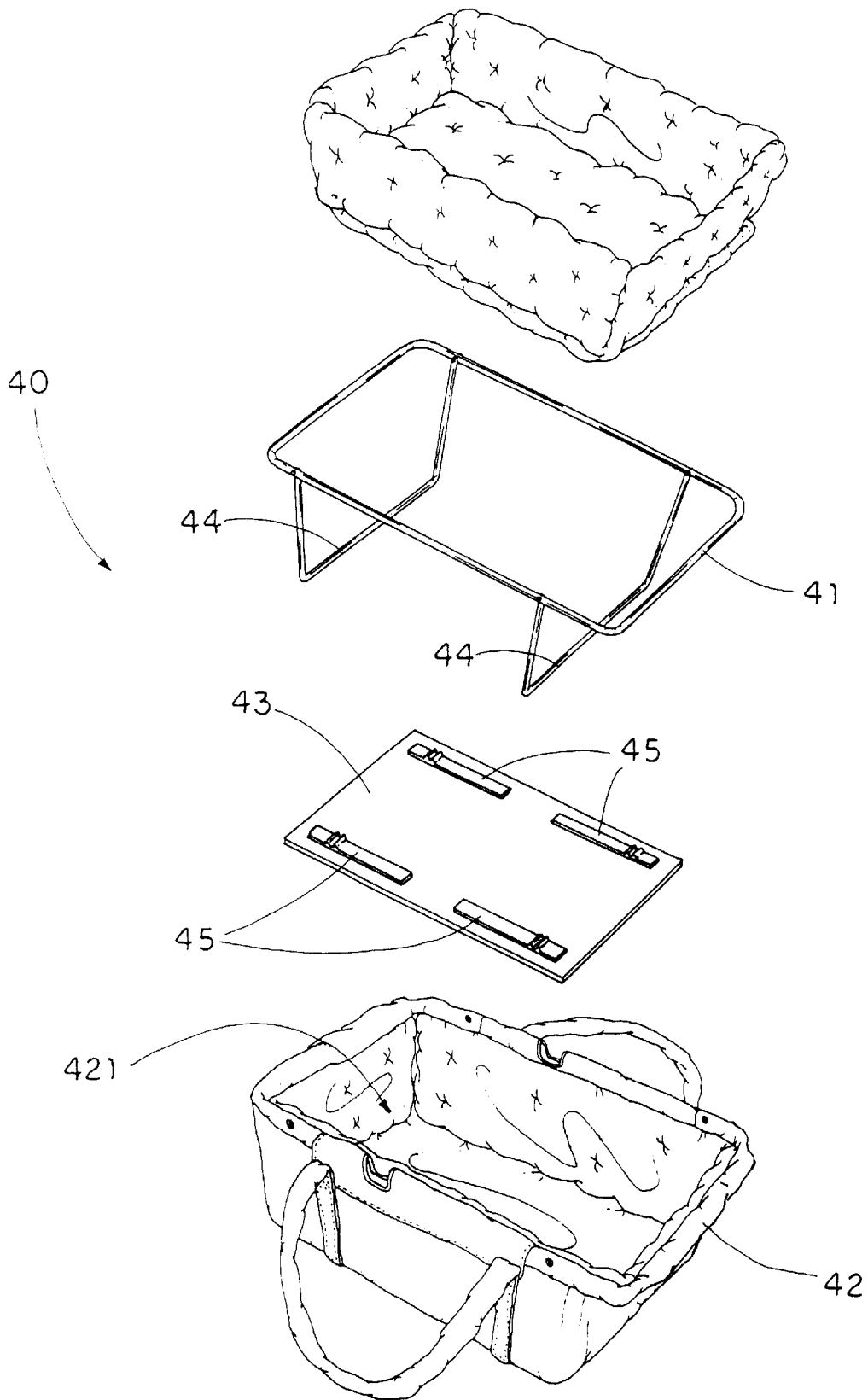


FIG. 4

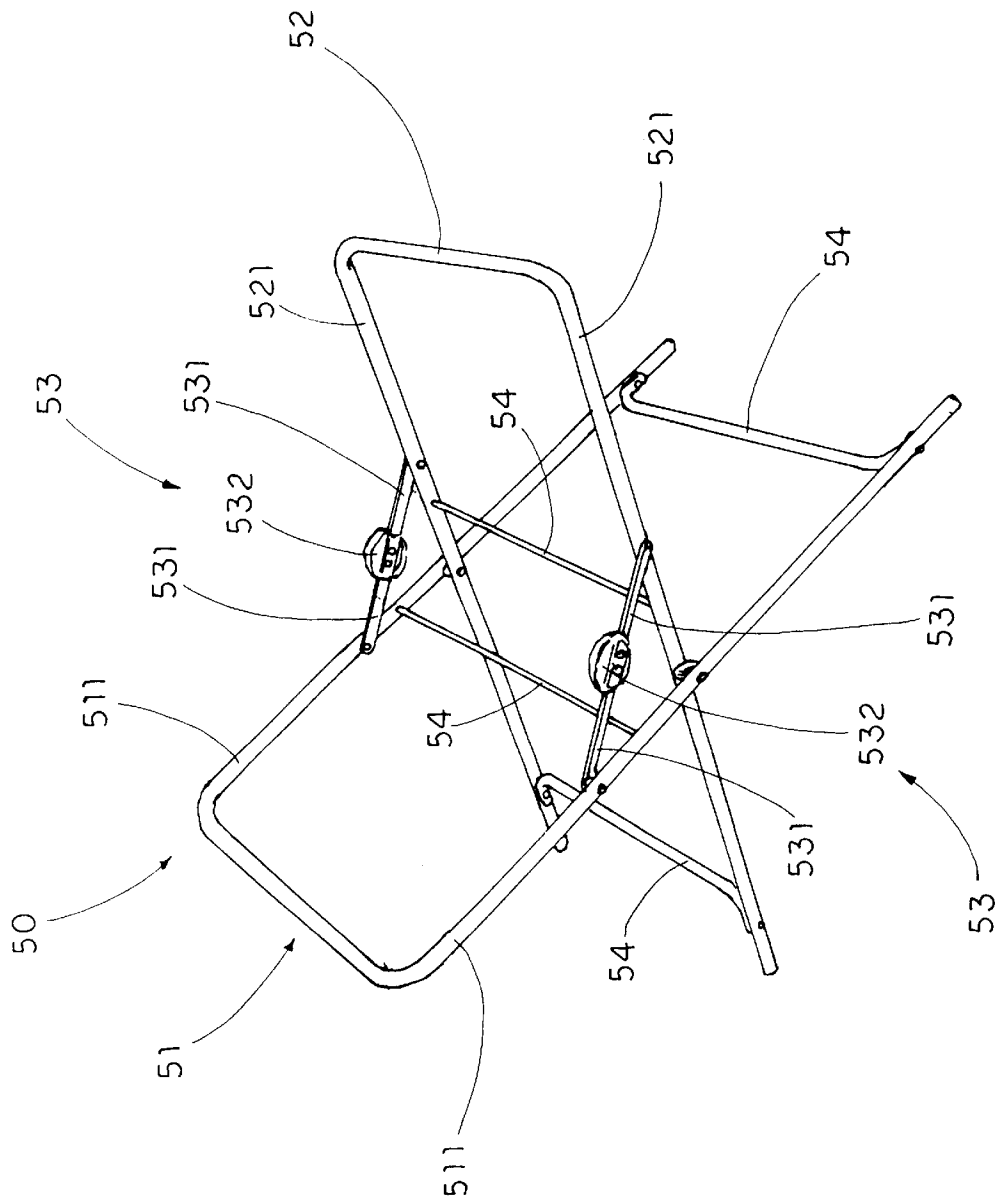


FIG. 5

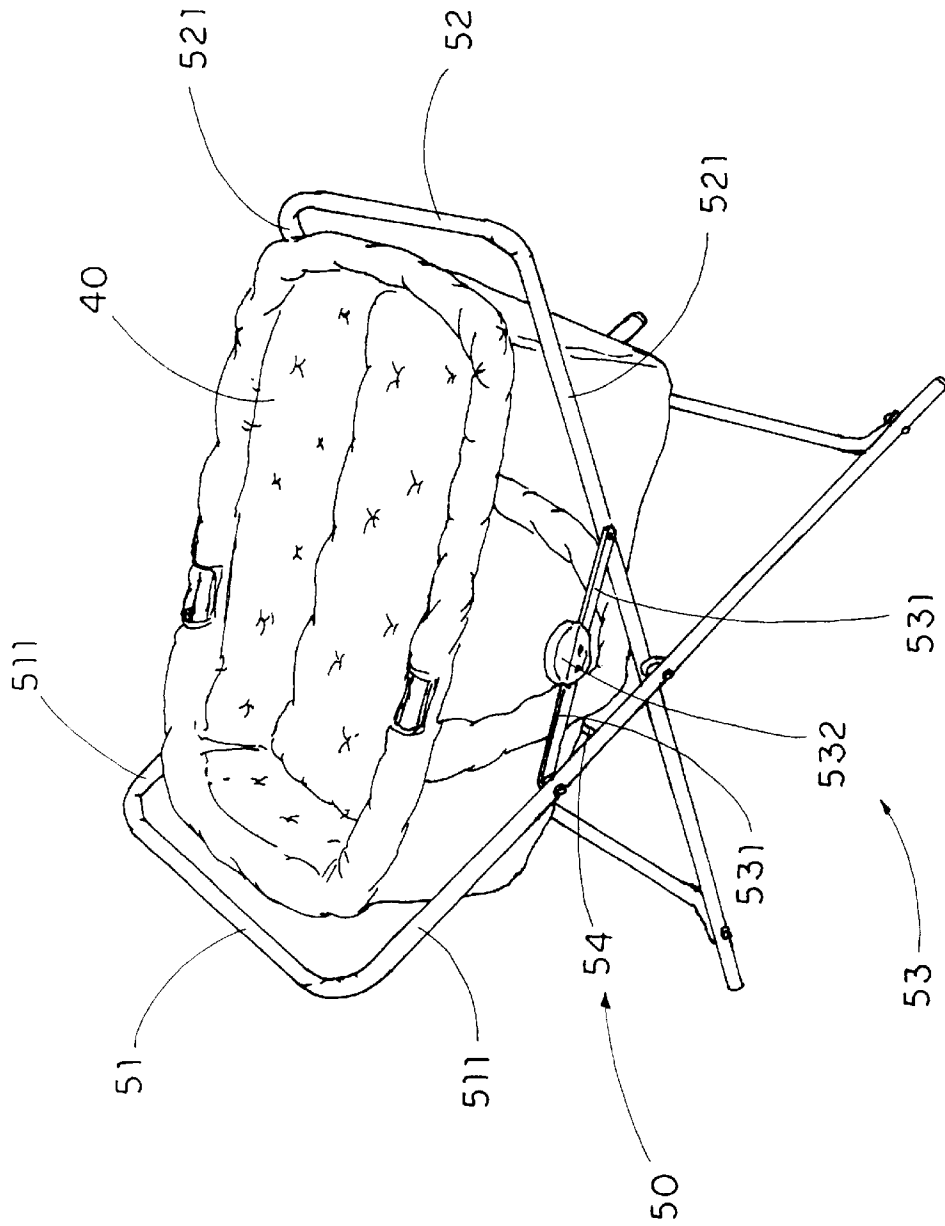


FIG. 6

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**BASSINET ARRANGEMENT****BACKGROUND OF THE PRESENT  
INVENTION****1. Field of Invention**

The present invention relates to baby accessories, and more particularly to a bassinet arrangement which is adapted for accommodating a child therein while being cost effective.

**2. Description of Related Arts**

Bassinet and playpen, which become necessities to every family having a young child or baby, are considered as conveniences tools to carry and accommodate the baby respectively.

It is no doubt that the bassinet is lightweight and portable. However, at home, the parents may pull their children to the infant bed rather than in the bassinet. It is because the parents must find a safe surface to support the bassinet. Otherwise, the bassinet has an adverse effect of rocking and shaking. So, the baby may feel uncomfortable and unsafe when the bassinet is shaking. Furthermore, the infant bed has relative larger storage space than the bassinet. Therefore, the bassinet will be stored somewhere in the house, which is a waste of the luxury space. Thus, when the child grows up, the parent may merely keep purchasing all the baby's accessories, such as a playpen and bed having a bigger size, individually that occupy all the luxury space at home.

The playpen is normally used to restrict the movement of the baby or young child who is able to trail or walk when the parents cannot always keep their eyes on their babies. Since the playpen can provide an absolutely safe boundary for the children, the playpen must be constructed rigidly and the depth of the playpen must be deep enough to prevent the children from climbing out of the playpen. However, it is a hassle for the parent to pull and take a small child in the playpen. Therefore, there is a headache for the parents that how to accommodate their child at home safety.

**SUMMARY OF THE PRESENT INVENTION**

A main object of the present invention is to provide a bassinet arrangement which is adapted for accommodating a child therein while being cost effective.

Another object of the present invention is to provide a bassinet arrangement which substantially increases the supporting area of the playpen to rigidly support the bassinet thereon. Thus, the infant bed can be provided on the supporting area of the playpen. In other words, the bassinet arrangement of the present invention fits for any age of a child from infant up to five years olds.

Another object of the present invention is to provide a bassinet arrangement, which is adapted to incorporate with a playpen without altering the original structural design of the playpen, so as to minimize the manufacturing cost of the playpen incorporating with the bassinet arrangement.

Another object of the present invention is to provide a bassinet arrangement, wherein the attachment between the bassinet and the playpen is easy and fast, that is simply by tightly fastening the edge holder of the fabric pocket on the opening edge of the playpen.

Another object of the present invention is to provide a bassinet arrangement, wherein no expensive or complicate structure is required to employ in the present invention in order to achieve the above mentioned objects. Therefore, the present invention successfully provides an economic and

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efficient solution for selectively using as a bassinet supporter, an infant bed, and the playpen.

Accordingly, in order to accomplish the above objects, the present invention provides a bassinet arrangement adapted for detachably mounting on a playpen which comprises a frame body having a top opening defined a surrounding supporting side edge and a storage chamber communicating with the top opening.

The bassinet arrangement, comprising:

a fabric boundary having a first compartment and a second compartment adjacent to the first compartment and a surrounding edge holder extended along on the fabric boundary for detachably mounting on the supporting side edge of the frame body of the playpen;

a fastening unit provided on the edge holder and the frame body of the playpen for securely mounting the fabric boundary on the playpen; and

a bassinet shaped and sized to be able to substantially dispose in the second compartment.

**BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 is a perspective view of a bassinet arrangement incorporated with a playpen according to a preferred embodiment of the present invention.

FIG. 2 is a perspective view of a fabric boundary of the bassinet arrangement according to the above preferred embodiment of the present invention.

FIG. 3 is a sectional view of the fabric boundary of the bassinet arrangement according to the above preferred embodiment of the present invention.

FIG. 4 is an exploded perspective view of the bassinet arrangement according to the above preferred embodiment of the present invention.

FIG. 5 is a perspective view of a foldable bassinet stand of the bassinet arrangement according to the above preferred embodiment of the present invention.

FIG. 6 is a perspective view of the bassinet mounted on the foldable bassinet stand according to the above preferred embodiment of the present invention.

**DETAILED DESCRIPTION OF THE  
PREFERRED EMBODIMENT**

Referring to FIGS. 1 and 2 of the drawings, a bassinet arrangement 2 incorporated with a playpen 1 according to a preferred embodiment of the present invention is illustrated. The playpen 1 comprises a frame body 10 comprising four supporting posts 101 support a box-shaped fabric made boundary shelter 11 therebetween. The boundary shelter 11 has four surrounding walls 111 and a bottom wall 112 to form a top opening 12 and defined a surrounding supporting side edge 13 and a storage chamber 14 defined between the surrounding walls 111 and communicating with the top opening 12.

The bassinet arrangement 2 comprises a fabric boundary 20 having a first compartment 201 and a second compartment 202 adjacent to the first compartment 201 wherein a depth of the first compartment 201 is smaller than that of the second compartment 202 and a surrounding edge holder 23 extended along on the fabric boundary 20 for detachably mounting on the supporting side edge 13 of the frame body 10 of the playpen 1.

The bassinet arrangement 2 further comprises a fastening unit 30 provided on the edge holder 23 and the frame body 10 of the playpen 1 for securely mounting the fabric bound-

ary **20** on the playpen **1**, and a bassinet **40** shaped and sized to be able to substantially dispose in the second compartment **202**. As best seen in FIGS. **1** and **3**, bassinet **40** is substantially shaped and sized to be fittingly and removably positioned in the second compartment **202**.

According to the preferred embodiment, the fabric boundary **20** comprises a first pocket **21** having four first surrounding sheets **211** and a first bottom sheet **212** to form the first compartment **201** having a box shape and a second pocket **22** having four second surrounding sheets **221** and a second bottom sheet **222** to form the second compartment **202** having a box shape, wherein one of the first surrounding sheets **211** is overlapped with one of the second surrounding sheets **221** such that the first pocket **21** is positioned adjacent to the second pocket **22**. The fabric boundary **20** further comprises two cushion layers **24** disposed in the first and second compartments **201**, **202** respectively for providing a soft and comfortable support for the baby.

Besides, each of the first surrounding sheets **221** having a vertical length shorter than a vertical length of each of the second surrounding sheets **221** such that the depth of the first compartment **201** is smaller than that of the second compartment **202**.

The fabric made edge holder **23** having a rectangular shape is firmly attached to a top portion of the fabric boundary **20**, which is encircling with the first and second pockets **21**, **22**, wherein the edge holder **23**, having a U-shaped cross section, has an outer wall **231** and an inner wall **232** to define a positioning groove **233** that opens downward for receiving the supporting side edge **13** of the frame body **10**. Preferably, the edge holder **23** should be constructed with a cushion pad that provides a softness and comfort and prevents any unwanted injury to the baby.

In order to form the edge holder **23**, the outer wall **231** is formed by folding the top edge portion of the fabric boundary **20** to an outer surface thereof overlappedly so as to define the positioning groove **233** between the inner wall **232** and the outer wall **231**.

In order to fittedly mount the edge holder **23** on the supporting side edge **13** of the frame body **10**, the edge holder **23** further has four U-shaped corner openings **234** provided at four corners of the outer wall **231** of the edge holder **23** for holding around the four supporting posts **101** of the playpen **1**.

The fastening unit **30** comprises a plurality of first fastener units **31** provided on the outer wall **231** at the corner openings **234** respectively and a plurality of second fastener units **32** provided at four upper corners of the frame body **10** for detachably fastening with the first fastener units **31** respectively so as to securely mount the fabric boundary **20** on the frame body **10**.

Accordingly, each of the first fastener units **31** comprises two buckle plugs positioned at two ends of the respective corner opening **234** and each of the second fastener units **32** comprises a buckle socket having two opposed socket inlets **321** to detachably fasten with the two first fastener units **31** positioned at the respective corner opening **234** respectively as shown in FIG. **3**.

The fastening unit **30** further comprises a plurality of positioning straps **33** transversely mounted on the outer wall **231** and extended from one corner opening **234** to another corner opening **234** wherein each of the positioning straps **33** has two free ends. Moreover, the positioning straps **33** can enhance the tight mounting engagement between the edge holder **23** and the supporting side edge **13** of the frame body **10** so as to secure the fabric boundary **20** on the playpen **1**.

As shown in FIG. **4**, in order to rigidly support the user in the bassinet **40**, the bassinet **40** comprises a boundary frame **41**, a fabric bassinet shelter **42** supported thereon to define a supporting cavity **421**, a supporting board **43** disposed in the supporting cavity **421**, a pair of U-shaped folding arms **44** each having two upper ends pivotally connected to the boundary frame **41**, and at least a pair of locking members **45** mounted on the supporting board **43** for detachably locking with the folding arms **44** respectively wherein each of the folding arms **44** has a height equals to a depth of the supporting cavity **421**, in such a manner that when the folding arms **44** are locked at the supporting board **43**, a downward force of the user's weight can be evenly distributed to the boundary frame **41** through the folding arms **43**, so as to substantially support the user in the bassinet **40**.

As shown in FIG. **5**, the bassinet arrangement **2** further comprises a foldable bassinet stand **50** for rigidly supporting the bassinet **40** individually wherein the bassinet stand **50** comprises a U-shaped first stand frame **51** having a pair of first frame legs **511**, a U-shaped second stand frame **52** having a pair of second frame legs **521** pivotally connected to the first frame legs **511** of the first stand frame **51** respectively, and a pair of folding joints **53** each having two pivot arms **531** pivotally connected to the first and second frame legs **511**, **521** respectively for retaining a rotational movement between the first and second stand frames **51**, **52**. Therefore, the bassinet **40** is adapted for rigidly supporting on the bassinet stand **50** between the first and second stand frame **51**, **52**, as shown in FIG. **6**.

Accordingly, each of the folding joints **53** comprises a joint member **532** wherein the two pivot arms **531** has one end pivotally connected to the joint member **532** and another end pivotally connected to an upper portion of one of the first and second frame legs **511**, **521**. The bassinet stand **50** further comprises at least two supporting pillars **54** rigidly mounted on the first and second stand frames **51**, **52** wherein one of the supporting pillars **54** is mounted between the two first frame legs **511** of the first stand frame **51** and another supporting pillar **54** is mounted between the two second frame legs **521** of the second frame stand **52**, so as to form a rigid structure of the bassinet stand **50**.

Furthermore, a U-shaped side opening **110** is provided on one of the surrounding walls **111** of the boundary shelter **11** such that the playpen **1** can be formed as a storage for storing the baby's accessories such as diaper when the fabric boundary **20** is mounted on the playpen **1**. In other words, the present invention occupies minimized space for storing the baby's accessories at home.

It is worth to mention that the infant is able to accommodate on the bassinet **40** that can be supported by either the fabric boundary **20** or the bassinet stand **50** such that the parent can carry the infant by the basinet **40** everywhere at home. Thus, it is convenient for the parent that the infant can lay in the first compartment **201** for changing diaper when the bassinet **40** is supported in the second compartment **201**. When the infant grows up, the second compartment **202** can be used as a bed for the baby sleeping therein. Moreover, the fabric boundary **20** can be detached from the playpen **1** such that the parent can pull his or her young child in the playpen **1** to restrict the movement of the young child. In other words, the parent is able to keep using the bassinet arrangement **2** of the present invention for his or her baby from infant to a young child up to five years olds.

What is claimed is:

1. A bassinet arrangement for a playpen which comprises a frame body having a top opening defined by a surrounding supporting side edge and a storage chamber communicating with the top opening, wherein said bassinet arrangement comprises:

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- a fabric boundary having a first compartment, a second compartment adjacent to said first compartment, and a surrounding edge holder extended along said fabric boundary for detachably mounting on said supporting side edge of said frame body of said playpen;
  - a fastening unit provided on said edge holder and said frame body of said playpen for securely mounting said fabric boundary on said playpen; and
  - a bassinet which is substantially shaped and sized to be fittingly and removably positioned in said second compartment.
2. The bassinet arrangement, as recited in claim 1, wherein said edge holder is firmly attached along a top portion of said fabric boundary, wherein said edge holder, having a U-shaped cross section, has an outer wall and an inner wall to form a positioning groove that opens downward for receiving said supporting side edge of said frame body.
  3. The bassinet arrangement, as recited in claim 2, wherein said edge holder further has four U-shaped corner openings provided at four corners of said outer wall of said edge holder for holding around four supporting posts of the playpen.
  4. The bassinet arrangement, as recited in claim 3, wherein said fastening unit comprises a plurality of first fastener units provided on said outer wall at said corner openings respectively and a plurality of second fastener unit provided at four upper corners of said frame body for detachably fastening with said first fastener unit respectively so as to securely mount said fabric boundary on said frame body.
  5. The bassinet arrangement, as recited in claim 4, wherein each of said first fastener units comprises two buckle plugs positioned at two ends of said respective corner opening and each of said second fastener units comprises a buckle socket having two opposed socket inlets to detachably fasten with said two buckle plugs positioned at said respective corner opening respectively.
  6. The bassinet arrangement, as recited in claim 4, wherein said fabric boundary comprises a first pocket having four first surrounding sheets and a first bottom sheet to form said first compartment having a box shape, and a second pocket having four second surrounding sheets and a second bottom sheet to form said second compartment having a box shape, wherein one of said first surrounding sheets is overlapped with one of said second surrounding sheets such that said first pocket is positioned adjacent to said second pocket.
  7. The bassinet arrangement, as recited in claim 6, wherein each of said first surrounding sheets having a vertical length shorter than a vertical length of each of said second surrounding sheets such that a depth of said first compartment is smaller than that of said second compartment.
  8. The bassinet arrangement, as recited in claim 4, wherein said bassinet comprises a boundary frame, a fabric bassinet shelter supported thereon to define a supporting cavity, a supporting board disposed in said supporting cavity, a pair of U-shaped folding arms each having two

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- upper ends pivotally connected to said boundary frame, and at least a pair of locking members mounted on said supporting board for detachably locking with said folding arms respectively wherein each of said folding arms has a height equals to a depth of said supporting cavity.
9. The bassinet arrangement, as recited in claim 4, further comprising a foldable bassinet stand for rigidly supporting said bassinet individually wherein said bassinet stand comprises a U-shaped first stand frame having a pair of first frame legs, a U-shaped second stand frame having a pair of second frame legs pivotally connected to said first frame legs of said first stand frame respectively, and a pair of folding joints each having two pivot arms pivotally connected to said first and second frame legs respectively for retaining a rotational movement between said first and second stand frames, so as to rigidly support said bassinet between said first and second stand frames of said bassinet stand.
  10. The bassinet arrangement, as recited in claim 2, wherein said bassinet comprises a boundary frame, a fabric bassinet shelter supported thereon to define a supporting cavity, a supporting board disposed in said supporting cavity, a pair of U-shaped folding arms each having two upper ends pivotally connected to said boundary frame, and at least a pair of locking members mounted on said supporting board for detachably locking with said folding arms respectively wherein each of said folding arms has a height equals to a depth of said supporting cavity.
  11. The bassinet arrangement, as recited in claim 1, wherein said fabric boundary comprises a first pocket having four first surrounding sheets and a first bottom sheet to form said first compartment having a box shape, and a second pocket having four second surrounding sheets and a second bottom sheet to form said second compartment having a box shape, wherein one of said first surrounding sheets is overlapped with one of said second surrounding sheets such that said first pocket is positioned adjacent to said second pocket.
  12. The bassinet arrangement, as recited in claim 11, wherein each of said first surrounding sheets having a vertical length shorter than a vertical length of each of said second surrounding sheets such that a depth of said first compartment is smaller than that of said second compartment.
  13. The bassinet arrangement, as recited in claim 1, further comprising a foldable bassinet stand for rigidly supporting said bassinet individually wherein said bassinet stand comprises a U-shaped first stand frame having a pair of first frame legs, a U-shaped second stand frame having a pair of second frame legs pivotally connected to said first frame legs of said first stand frame respectively, and a pair of folding joints each having two pivot arms pivotally connected to said first and second frame legs respectively for retaining a rotational movement between said first and second stand frames, so as to rigidly support said bassinet between said first and second stand frames of said bassinet stand.

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